



OICE

## RAW SEQUENCE LISTING

DATE: 02/12/2002

PATENT APPLICATION: US/10/052,283

TIME: 12:01:23

Input Set : A:\P2751R1C1.txt

Output Set: N:\CRF3\02122002\J052283.raw

PS

3 <110> APPLICANT: Baker, Kevin P.  
 4       Goddard, Audrey  
 5       Wood, William I.  
 7 <120> TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES AND METHOD OF USE THEREOF  
 9 <130> FILE REFERENCE: P2751R1C1  
 11 <140> CURRENT APPLICATION NUMBER: US/10/052,283  
 11 <141> CURRENT FILING DATE: 2002-01-15  
 11 <150> PRIOR APPLICATION NUMBER: PCT/US00/20006  
 12 <151> PRIOR FILING DATE: 2000-07-21  
 14 <150> PRIOR APPLICATION NUMBER: US 60/145,701  
 15 <151> PRIOR FILING DATE: 1999-07-26  
 17 <160> NUMBER OF SEQ ID NOS: 564  
 19 <210> SEQ ID NO: 1  
 20 <211> LENGTH: 478  
 21 <212> TYPE: DNA  
 22 <213> ORGANISM: Homo Sapien  
 24 <220> FEATURE:  
 25 <221> NAME/KEY: unsure  
 26 <222> LOCATION: 212, 285, 424  
 27 <223> OTHER INFORMATION: unknown base  
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 30 agtttggttaa aaataataat gccataata tatgttattt tacgtatggt 50  
 32 tatacagatg cacgcttatt tatacttatg tgtaagtga ataaatggca 100  
 34 aaaatgatac aaggcatagg aagaagaaat taggattata tgctatgtaa 150  
 36 gaaacagtat agtgtttttt gaaaatagac ttgaattagt tggaaatcca 200  
 W--> 38 tattgaaaac tntcgggcaa acatttttaa aaaataaaaa aatgatatgc 250  
 W--> 40 taagaaagaa gagaaaacgg aattacacaa aatgntcaat taaaaccaca 300  
 42 aaaggaagca aaagtgtgga aaacaaaaag ggaacaaaag aataaggcaa 350  
 44 caaacagaaa acagtaacaa atatggttag cattaatcca actatattaa 400  
 W--> 46 taatcacttt aaatatcaat ggtntaaata tgtcaattat aagacagaga 450  
 48 ttaccagagt ggacacatta tataagct 478  
 50 <210> SEQ ID NO: 2  
 51 <211> LENGTH: 682  
 52 <212> TYPE: DNA  
 53 <213> ORGANISM: Homo Sapien  
 55 <220> FEATURE:  
 56 <221> NAME/KEY: unsure  
 57 <222> LOCATION: 45, 51, 62  
 58 <223> OTHER INFORMATION: unknown base  
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 63 ntccccgccc gnttcgggccc cccagtgccc gcccttcgcg ggccggagggc 100  
 65 ggcaggtctgg gctttggcgc cttcgcagcc gcaggcgaca tctctttcc 150

ENTERED

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67 tagctaaagc cccaaacgcc caggtggcctt cctggggagag cacggctgag 200
69 cctccgcctt cagatcagaa caggcagagc ctccaagggc ggcttgggcc 250
71 cagtgcctgc ttatcctgcc cgtctctcca cacttcttct ttccctgtcc 300
73 gttggagtcc attccttcct ggaaaagcca aagccgcgct cccctaagag 350
75 tcatgtgtta ctggattaat tgaaattctt gataggtaac agagttttat 400
77 catcagctta tgattgccta tgactagctc aaagttaaagt ttttaataaac 450
79 tagtaagtac aataaacctc attcctaaat acaaggaaaa gaactatata 500
81 atgaatactt gtctctatgc cctctcgcga tagataacaa taatttaggt 550
83 ttacctttaa atgaactgca tttaaatgaa attaatttaa atgattgttt 600
85 cacggcacag tttcatcaat ggtctacggt atcccttatt tatgtataca 650
87 tcagtttgta tacatctgta tctatgtatt tg 682
89 <210> SEQ ID NO: 3
90 <211> LENGTH: 835
91 <212> TYPE: DNA
92 <213> ORGANISM: Homo Sapien
94 <220> FEATURE:
95 <221> NAME/KEY: unsure
96 <222> LOCATION: 1, 6, 12, 27, 29-31, 49, 53, 56, 58, 61-62, 66, 68, 71, 74,
97 78-81, 85-86, 88, 91, 95, 98, 102, 105, 109, 111, 115, 126-127,
98 131, 139, 142, 146-147, 157, 163, 166, 169, 175, 177, 184,
99 196-197, 199, 210, 215, 217, 219, 222, 228, 234, 236, 238,
100 240-241, 244-245, 257, 260, 263, 271, 279, 287, 291-331, 335,
101 337, 345, 384, 392, 418, 438, 459, 465, 478, 499, 501, 507, 533,
102 562, 579, 587, 598, 616, 630, 656, 661, 667, 671, 684, 702, 746,
103 811, 824-835
104 <223> OTHER INFORMATION: unknown base
106 <400> SEQUENCE: 3
W--> 107 nagaanggaa gngaaggagg aagaggnngnn naagagggag gggaaaagng 50
W--> 109 ganggnagnag nngagnangg ngngggannn naggnngnag naggnccnag 100
W--> 111 anggnaagng nttgnaagaa aggganngcc nggtaaaana gnaccnnccc 150
W--> 113 aagaanggat tangngngnt tcctngntga aggntgtgga tcccanntnt 200
W--> 115 ttcccgggan ttatngntng gnaacaanat ttcnangngn nacnnaggca 250
W--> 117 aacaatnaan ttnccaaggt nttggtagna tttcccnccg nnnnnnnnnn 300
W--> 119 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn ngatntnggg gttntcccc 350
W--> 121 ttcccccttc ccttttcccc accccggggg ttcnnggttg tnaagaaaaa 400
W--> 123 aaaaaaaaaa aagaattntg gcgcggcctc ggcggagntg gtgatcggct 450
W--> 125 ggtgcatant cggcntctta ctactggnta ttttggcatt ctgctggana 500
W--> 127 natgttngta aataccaaag tcggcgggaa agngaagttg tttccaccat 550
W--> 129 aacagcaatt tnttttttag caattgcant tatcacntca gcacttgnac 600
W--> 131 cagaggaaat attttnggtt tcttacatgn aaaatcaaaa tgggtacattt 650
W--> 133 aaggantggg ntaatgntaa ngtcagcaga cagnttgagg acactgtatt 700
W--> 135 anacggttac tatactttat attctgttat attgttctgt gtgttnttct 750
137 gqatcccttt tgtctactta tattatgaag aaaaggatga tgatgatact 800
W--> 139 agtagatgta ntcaaattaa aacnnnnnnn nnnnn 835
141 <210> SEQ ID NO: 4
142 <211> LENGTH: 491
143 <212> TYPE: DNA
144 <213> ORGANISM: Homo Sapien
146 <220> FEATURE:

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147 <221> NAME/KEY: unsure
148 <222> LOCATION: 181, 213, 251, 335, 345-346, 350, 357, 374, 381, 387, 398, 401,
149      403, 427, 442, 447, 451, 463, 481, 484, 486, 489
150 <223> OTHER INFORMATION: unknown base
152 <400> SEQUENCE: 4
153      agttttgttaa aaataataat gccataata tatgttattt aacgtatgtt 50
155      tataacagat gcacgcttat ttatacttat gtgtaagtga aataaatggc 100
157      aaaaatgata caaggcatag gaagaagaaa ttaggattat atgctatgta 150
W--> 159      agaagcagta tagtgttttt tgaaaataga nttgaattag ttggaaatcc 200
W--> 161      atattgaaaa ctntcgggca aacattttta aaaaataaaa aaatgatatg 250
W--> 163      ntaagaaaga agagaaaacg gaattacaca aaatgctcaa ttaaaaccac 300
W--> 165      aaaaggaagc aaaagtgtgg aaaacaaaaa ggggnacaaa gaatnnggcn 350
W--> 167      acaaacngca aacagtaaca attntggtta ncattantcc aattatantt 400
W--> 169      ncnattactc taaatatcaa tgttttnaat atgtctattg tnagacngag 450
W--> 171      nttaccagag agnacacatt atataaggtc ngangngtng g 491
173 <210> SEQ ID NO: 5
174 <211> LENGTH: 637
175 <212> TYPE: DNA
176 <213> ORGANISM: Homo Sapien
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179 <221> NAME/KEY: unsure
180 <222> LOCATION: 4, 12-13, 31, 37, 40, 43-44, 46, 50, 55, 64, 68, 78, 97, 114,
181      124-125, 137, 148, 183, 185, 227, 233, 236, 238, 264, 266, 268,
182      276, 322, 325, 334, 340, 345, 417, 426, 428, 472, 474-475,
183      482-484, 500, 502-503, 509-510, 521, 540, 543, 558, 588-589, 594,
184      598, 606, 616, 631, 633
185 <223> OTHER INFORMATION: unknown base
187 <400> SEQUENCE: 5
W--> 188      ttenttgtca anngtttttg gttccccctt ntttcenggn ttnntntttt 50
W--> 190      ggaanaaaaa ttnaagnta taccaagnaa aaaattaaat tccaagnatt 100
W--> 192      ggattgaatt ccnggggat ctttnagaga tcccttngac ttgacchnaa 150
W--> 194      ggggtcgggt ttaggggaag aagttggtgt ttngntgggc cctggtactg 200
W--> 196      aagacgcgtt ccgggtagcc caaagangtt tcntantnac ccaaagcccc 250
W--> 198      gcacccgcct tttntntntt ttcttntggc aggatgagge gtgcaggcct 300
W--> 200      ggggtgaagga gtacttcctg gnaantatgg gaantatggn tatgntaata 350
W--> 202      gtqggtatag tgccgtgtga gaagaaaatg agaggctcac tgaaagtgtg 400
W--> 204      agaagcaaag taactgntat aaaatntntt tccattgaa ataggccatg 450
W--> 206      aagttaaaac ccagaataaa tnannagcgg annnggatta aaaagacgan 500
W--> 208      tnnacaacnn tgatttttga ngtataacta tgggcataa tgnagatttt 550
W--> 210      ttccagangg agctaaacaa agatgttgtg agatatgnng aggtatnat 600
W--> 212      taattntcaa gtttgntcac ataggcgagc ntnaaac 637
214 <210> SEQ ID NO: 6
215 <211> LENGTH 969
216 <212> TYPE: DNA
217 <213> ORGANISM: Homo Sapien
219 <220> FEATURE:
220 <221> NAME/KEY: unsure
221 <222> LOCATION: 12-13, 25, 46, 49, 53, 64, 94, 118, 134, 140, 153, 155, 164, 172,
222      175, 177, 182, 184, 191, 210, 218, 221, 223-224, 240, 242, 250,

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223 259, 266-267, 272, 276, 298, 305-306, 319, 339-340, 344, 346,  
 224 348, 353, 384, 397, 408, 432, 455, 457, 470, 474, 480, 502, 504,  
 225 519, 525, 559, 579, 597, 625, 629, 631, 634, 645, 649, 655, 657,  
 226 666, 670, 675, 681, 697, 768, 773, 776, 786, 788, 791, 794, 816,  
 227 819, 830, 859, 877, 879, 886, 895, 904, 910, 913, 918, 925,  
 228 927-946, 952, 956, 958, 962, 966, 968-969

229 &lt;223&gt; OTHER INFORMATION: unknown base

231 &lt;400&gt; SEQUENCE: 6

W--> 232 cccctttttt cnnnggttttt ttttnggaaa aaaatttcag ggggtanccng 50  
 W--> 234 ggnaaaattt aaantccagg gtttgggggg atttccccgg ggtntcttttg 100  
 W--> 236 gaggttccttt ggacctgnaa caaagggttg gaantaaaaa aaaaatttaa 150  
 W--> 238 aancnggggtt tttnggggaa anttnanaat gngnttgggg ncaagaaaaa 200  
 W--> 240 tgggttttttn gggagggnaa ngnnnggttca tttccaaatn gnaggggggn 250  
 W--> 242 aaaaattttna ggcttnnggg gnagngggaa aaaaatttcg tagcctcnag 300  
 W--> 244 gttggnattt ttaaacctnc agaaggtggc cagccccggn tcancngntg 350  
 W--> 246 atnaaggcag atgggaaaag ggggatatgg ggtnataagg gtacctntca 400  
 W--> 248 cccttttnga aggaaaaaaa gtggtccaca gnatttttgt ttacccaagg 450  
 W--> 250 gtaananatg gaattttgtt gaanataggn gaatggtgag gcatttgga 500  
 W--> 252 anangggggg ggggtttttt tgaangggg agtaggggta tgggtatttta 550  
 W--> 254 tgggaaaaana gttttttggc actaaacctt tttgaattac ctaatanatt 600  
 W--> 256 tatgtggaaa cctgtccttt ttttncagnt naanaaaaaat ttttnccent 650  
 W--> 258 gaaantnatt tttagnaagn atatnaaaag natttttttt ttcaagngtc 700  
 260 agaaaaccttt tagcatcatt gaagttaaaa tgactgtcca taaacttttc 750  
 W--> 262 agaaatagta ggcatttnag gcnacnagat ttgtanangg natnttcata 800  
 W--> 264 gaattatacc agtganttna ccacctgaan cctcttggat cccgtaagca 850  
 W--> 266 ttctttgcna caaggaagg aggtatncng ggtaantcct tgaanttttg 900  
 W--> 268 gacnggaacn atnacttnga atttannnnn nnnnnnnnnn nnnnnngccg 950  
 W--> 270 cngggncntt tntcngnng 969

272 &lt;210&gt; SEQ ID NO: 7

273 &lt;211&gt; LENGTH: 952

274 &lt;212&gt; TYPE: DNA

275 &lt;213&gt; ORGANISM: Homo Sapien

277 &lt;220&gt; FEATURE:

278 &lt;221&gt; NAME/KEY: unsure

279 &lt;222&gt; LOCATION: 1, 3, 7, 23, 30, 38, 49, 53, 64, 68, 84, 90-92, 109, 130, 147,

280 152, 182, 198, 211, 221-222, 228, 239, 243, 255, 271, 300, 303,

281 308-309, 314, 322, 331, 337, 340, 345, 359, 377, 381, 385, 412,

282 422, 452, 463, 469, 475, 541, 547, 586, 777, 780-781, 784-787,

283 789, 798, 802-803, 825, 831, 838, 840, 853, 855, 863, 865, 872,

284 885, 889-890, 907, 921-952

285 &lt;223&gt; OTHER INFORMATION: unknown base

287 &lt;400&gt; SEQUENCE: 7

W--> 288 ngntttngtt cccttttttc cenggttttn tttttggnaa aaaaatttna 50  
 W--> 290 ggnttaaccc aggnaaanat taaattccaa gggntttggn nngaattccc 100  
 W--> 292 cgggggttnc ttttaggggt tcctttgacn ttgaaccaa ggtttcnggc 150  
 W--> 294 cngggagggg gggggaccgg tttttcccc cngcgtttc cccggggntg 200  
 W--> 296 ggggttgggg ngcccatttg nngaagtnag tggggaggng gantgggaac 250  
 W--> 298 ccggnagttt tggagaaagg naggttcctt ccttaacctt gggggttcen 300  
 W--> 300 gnggcccnng gagnggcagt tnggggaata ntgtttnagn ggttnggggg 350

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W--> 302 gttttcctng ggtcccgcca agggggnggt ncttnataaa aggggtgcctt 400  
W--> 304 tttcccccaca gnttccaggt cngagaggag cgcaccgtc ggggttgaga 450  
W--> 306 tngcgcgcaa gngggcttnt ggttnggatt tgccccgcat cggccacagg 500  
W--> 308 aaaagcctgg tccctaggca cggttgtggt tcgagctttt ngttttntcg 550  
W--> 310 aacattgagg tattecgtca gccaccacg ttgtcntcgg ggttattagg 600  
312 cccagtcac aagccctatg atgttttcag acttcccagg tggagataag 650  
314 gaaaatttta ctatttctgc agaacttctg ttgatgtaca gcattgtatt 700  
316 tagcaacttc tgtgtagatc tgaataaaa tacattacca attgtagatt 750  
W--> 318 gcgtttttat taatataatt ttagagnagn ngannnnngnt gttagacnta 800  
W--> 320 cnnaggtaaa ttatgtggca ctttngcatt nttgttgntn catgttcccc 850  
W--> 322 tgnantttgc ttngngattt cnatttattc caaantcann atagaatgta 900  
W--> 324 atttccnaac ccacagtcgg nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 950  
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328 <210> SEQ ID NO: 8  
329 <211> LENGTH: 752  
330 <212> TYPE: DNA  
331 <213> ORGANISM Homo Sapien  
333 <220> FEATURE:  
334 <221> NAME/KEY: unsure  
335 <222> LOCATION: 4-6, 8, 11, 34, 37, 40, 87, 123, 125, 133-134, 138, 143, 147,  
336 166, 171, 174, 199, 242, 263, 302, 305, 333, 363, 380, 423, 425,  
337 463, 527, 534, 539, 547-548, 553, 556, 561, 583, 604, 607, 615,  
338 618, 621, 624, 628, 638, 641-643, 646, 648, 654-655, 658, 660,  
339 666, 674, 676, 679, 688-689, 704, 710-725, 727, 730, 735, 739,  
340 741, 745, 747, 749, 751-752  
341 <223> OTHER INFORMATION: unknown base  
343 <400> SEQUENCE: 8  
W--> 344 ggannngntt ncaaaatggg atttttaacc aaantanggn agagaaaagt 50  
W--> 346 ttaagtgttt tgccaaaaaa attccaagga aaataangcg gagtttgatt 100  
W--> 348 tttcagagtt caacaggaaa aangngaaca aanngccngg agntttnaaa 150  
W--> 350 gttttgggaa agccantttt natntgttca aggaacagtt tttatttgng 200  
W--> 352 atgccaatca gaatttttga cccagtataa tcaaggtcag antttcaacc 250  
W--> 354 taagcctgga ccngacccat aataacggaa agtttaacaa tgactcacat 300  
W--> 356 tntcntaaaag tttccagcca gaataggaca cgntcatttg gtcattttcc 350  
W--> 358 cggtcagag ttnttgatg tagagaaan tagcttttcc caggaacaat 400  
W--> 360 tttgtgattc cgcaggagaa ggntntgaaa gaatacatca agattttgaa 450  
W--> 362 tttggtgatg aanttagcag cagctccact gaacagataa gggcaaccac 500  
W--> 364 acctccaaat caaggaaggc cagattntcc tgtntatgnt aaccttnnag 550  
W--> 366 aantgnaaat ntcccagtat ggtcttcccc canttcttgg gagcctggtg 600  
W--> 368 attnagntta ttggngcntg nganactnat atagacanct nnnngngntg 650  
W--> 370 ttannatnan cacagnngga catngnatng aagttgggna cctcttgctt 700  
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377 <211> LENGTH: 478  
378 <212> TYPE: DNA  
379 <213> ORGANISM Homo Sapien  
381 <400> SEQUENCE: 9  
382 agtttggttaa aaataataat gccataata tatgttattt tacgtatggt 50

VERIFICATION SUMMARY  
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L:11 M:270 C Current Application Number differs, Replaced Current Application No  
L:11 M:271 C Current Filing Date differs, Replaced Current Filing Date  
L:38 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1  
L:40 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1  
L:46 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1  
L:61 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2  
L:63 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2  
L:107 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:109 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:111 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:113 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:115 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:117 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:119 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:121 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:123 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:125 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:127 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
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L:131 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:133 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:135 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:139 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:159 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:161 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:163 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:165 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:167 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
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L:210 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5  
L:212 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5  
L:232 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:234 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:236 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:238 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:240 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:242 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6

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Input Set : A:\P2751R1C1.txt

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L 244 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L 246 M 341 W (46) "n" or "Xaa" used, for SEQ ID#:6  
L 248 M 341 W (46) "n" or "Xaa" used, for SEQ ID#:6  
L 250 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L.17046 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:564